CLAIMS

I Claim,

1. An escape fire ladder system including an alarm, a box, a driver, a main shaft and an escape ladder; wherein, the box being provided at where appropriately in a room to detect an onset of a fire and send alarm signals to a receiver; the box located by a balcony firmly resting on the ground, a receiver to receive the fire alarm being provided externally to the box at where appropriately, and an opening being provided to the front end of the box; the driver being provided at where appropriately on the box and linked to the main shaft to drive the main shaft; the main shaft provided inside the box being driven by the driver, and multiple locking grooves being provided laterally and longitudinally on the main shaft to hold the escape ladder coiled around the main shaft in position; and the escape ladder made of steel cable being comprised of two side rails and multiple rungs with one end of the escape ladder fixed to the main shaft; the escape ladder being driven by the driver to coil around the main shaft, and respectively held in position by those locking grooves laterally and longitudinally provided on the main shaft is characterized by that the escape ladder being normally received in the box; and in case of a fire, the alarm in the room detecting the fire and sending alarm signals to the receiver in the box, a power source being activated at the command of the receiver, the main shaft being driven through a gear set, the escape ladder descending through the opening of the box along

the external wall of a building down to the ground or a given floor where being closer to the ground for those tenants on the higher floors in a building to fast escape from the fire site.

2. An escape ladder system as claimed in Claim 1, wherein, the driver is comprised of a power source, a battery and a gear set.

3. An escape ladder system as claimed in Claim 1, wherein, the power source of the driver is related to a motor.

4. An escape ladder system as claimed in Claim 1, wherein, a cranking device is provide on the opposite side to the driver in the box, a positioning rod locked to the main shaft is provided on one side of the box, and a crank arm to crank the main shaft to descend the escape ladder in the absence of power supply.

5. An escape ladder system as claimed in Claim 1, wherein, a gravity rod is provided to the terminal of the escape ladder to accelerate the escape ladder in descending down to the ground or a given floor where is closer to the ground.

6. An escape ladder system as claimed in Claim 1, wherein, a positioning sensor is provided to the terminal of the escape ladder.

7. An escape ladder system as claimed in Claim 1, wherein, an alarm sending visible or audible signals is provided to the box and linked to the sensor.

8. An escape ladder system as claimed in Claim 1, wherein, two hand rests stride over both sides of the box to be grabbed by hand or buckled up with a S-type waist strap by a user to prevent from accidentally falling

off the escape ladder.

9. An escape ladder system as claimed in Claim 1, wherein, each rung is provided with multiple protrusions to stop slipping.